

AIRCRAFT GALLEY CHILLER SYSTEM

ABSTRACT OF THE DISCLOSURE

A galley chiller system for an aircraft includes at least one condenser having a refrigerant fluid. The fluid within the condenser rejects heat to a first surrounding environment. To more efficiently use the condenser of the galley chiller system and reduce the requirement on other cooling systems within an aircraft, the condenser may reject its heat to a desired location using a heat exchanger. The galley chiller system includes at least one evaporator that receives fluid from the condenser. A first evaporator absorbs heat from a galley, which may include a bank of carts. The first evaporator is arranged in ducting that carries cooled air to the carts. A second evaporator may absorb heat from a cabin recirculation air duct of the aircraft cooling system. In this manner, the evaporators of the inventive galley chilling system cools not only the galley carts but also provides supplemental cooling to the aircraft cooling system thereby reducing its cooling requirements.

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